SECTION 608

CONCRETE MEDIAN, MEDIAN STRIP, SIDEWALK, STEPS AND PAVED APPROACHES

608.1 Description. This work shall consist of constructing concrete median, median strip, sidewalk, steps and paved approaches in conformity with the lines, grades, dimensions and typical sections shown on the plans or as directed by the engineer. Concrete median shall consist of a paved median constructed on a prepared subgrade. Concrete median strip shall consist of a paved median strip laid over and doweled to a previously constructed pavement.

608.2 Material. All material shall conform to Division 1000, Materials Details, and specifically as follows:

Item	Section
Reinforcing Steel for Concrete Structures	1036.1
Steel Wire Fabric for Concrete Pavement	1036.2
Material for Joints	1057.1

608.2.1 Concrete sidewalk and steps shall be constructed of Class B concrete. Concrete median, median strip and paved approaches 6 inches (150 mm) or greater in thickness shall be constructed of Pavement concrete. Concrete median, median strip and paved approaches less than 6 inches (150 mm) in thickness shall be constructed of either Class B concrete or Pavement concrete. Material, proportioning, air-entraining, mixing, slump and transporting of concrete shall be in accordance with Sec 501. Concrete shall be placed, finished and cured in accordance with the applicable provisions of Secs 502 and 703.

608.3 Construction Requirements.

608.3.1 All items shall be constructed on a subgrade compacted to the specified density of the applicable subgrade material. The subgrade shall be checked by means of a template prior to placing concrete. Large rocks and boulders found in the subgrade shall be removed to a minimum of 6 inches (150 mm) below the bottom of the proposed concrete and the space shall be filled with suitable material. Forms shall be metal or sound, dressed lumber, straight, free from warp, of sufficient strength to resist springing during construction and of a height equal to the full depth of the item to be constructed. Wood forms shall have a minimum nominal thickness of 2 inches (50 mm) except where flexible forms are used. Flexible forms will be required for all curved form lines, except that straight steel form sections 10 feet (3 m) long or less may be used for form lines having a radius greater than 200 feet (60 m). Straight steel form sections 5 feet (1.5 m) long will be acceptable for form lines having a radius of not less than 100 feet (30 m). The forms shall be thoroughly cleaned, well oiled, securely staked, braced and held to the required line and grade.

608.3.2 Required reinforcement and tie bars shall be held in the specified position by bar chairs or other approved devices during the placing of concrete.

608.3.3 Concrete median strip shall be doweled to the pavement with tie bars as shown on the plans. Where the median strip is to be built on pavement constructed on a previous project, or on pavement that has been used by traffic before the median strip is placed, the contractor

shall drill holes and grout in the tie bars. If the median strip is included with the paving contract and will be constructed before the pavement is opened to traffic, the contractor may insert the tie bars into the pavement immediately after it has been finished, or the contractor may preform the holes and grout in the tie bars when the median strip is constructed. The holes shall be thoroughly cleaned just before the tie bars are grouted in place.

608.3.4 Joints for all items shall be constructed at such intervals and locations as shown on the plans or as directed by the engineer.

608.3.4.1 Transverse joints for concrete median shall be sawed joints of the same dimensions as required for concrete pavement and spaced approximately the same as transverse joints in non-reinforced concrete pavement. Load transfer devices will not be required. Longitudinal joints between the median and curb or median and adjacent concrete pavement shall be constructed of either non-extruding preformed joint material, or one layer of commercially available 55-pound (2666 g/m^2) roll roofing. Sawed joints shall be sealed in accordance with Sec 502.11.4.

608.3.4.2 Transverse joints in concrete median strip shall be constructed of non-extruding preformed joint material extending from top to bottom. Joints shall be constructed over each joint and major crack in the pavement, but at not less than 10-foot (3 m) intervals.

608.3.4.3 Transverse joints for concrete sidewalks shall be either sawed joints 1/8 inch (3 mm) wide x 1/2 inch (13 mm) deep or 1/2 inch (13 mm) deep dummy joints, made with a finishing tool. Preformed fiber joints shall be as shown on the plans.

608.3.5 Concrete shall be placed on the prepared and sprinkled subgrade and shall be consolidated and struck off to the required thickness. Mechanical consolidating and finishing equipment may be used provided satisfactory results are attained. The concrete shall be tamped or vibrated sufficiently to eliminate all voids and to bring the mortar to the top, after which the surface shall be uniformly finished with a wood float. All edges shall be rounded with an edging tool having a 1/4-inch (6 mm) radius. After finishing, the concrete shall be cured in the same manner as required for concrete pavement except that transparent membrane shall be used in lieu of pigmented membrane.

608.3.6 After the concrete has sufficiently set, the forms shall be removed and where necessary, the area adjacent to the concrete shall be backfilled with suitable material, compacted and finished in a satisfactory manner.

608.3.7 During cold weather, the limitations and protection requirements of Secs 502.4 and 502.4.1 shall apply to this work.

608.4 Method of Measurement.

608.4.1 Measurement of concrete median and median strip will be made to the nearest 1/10 square yard (0.1 m^2) or to the nearest linear foot (0.5 m) as specified in the contract. Final measurement of the completed concrete median and median strip will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity. The revision or correction will be computed and added to or deducted from the contract quantity.

608.4.2 Concrete sidewalk will be measured to the nearest 1/10 square yard (0.1 m^2).

608.4.3 Paved approach will be measured from the beginning of the return on one side of the approach to the end of the return on the other side of the approach to the nearest 1/10 square yard (0.1 m^2). Integral curb constructed on paved approaches will not be measured or paid for

separately but will be included in the contract unit price for paved approaches. Final measurement of the completed paved approach will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity. The revision or correction will be computed and added to or deducted from the contract quantity.

608.4.4 All excavation and all work necessary in preparing the subgrade and backfilling will be paid for as one or more of the classifications of roadway excavation. Final measurement of excavation will not be made except as set out in Sec 203.7.

608.5 Basis of Payment.

608.5.1 The accepted quantities of concrete steps will be paid for in the following manner:

(a) Class B concrete will be measured and paid for in accordance with Sec 703 for miscellaneous concrete.

(b) Reinforcing steel will be measured and paid for in accordance with Sec 706.

608.5.2 The accepted quantities of concrete median, median strip, sidewalk and paved approach, complete in place, will be paid for at the unit price for each of the pay items included in the contract. No direct payment will be made for furnishing or installing reinforcement.